



Irrigation Crop Diversification Corporation

ANNUAL REPORT 1999

Delivering "value for money" R&D to Saskatchewan irrigators



Irrigation Crop Diversification Corporation

Objects and Purposes of ICDC - *The Irrigation Act, 1996*

The objects and purposes of ICDC are the following:

- to research and demonstrate to producers and irrigation districts profitable agronomic practices for irrigated crops;
- to develop or assist in developing varieties of crops suitable for irrigated conditions;
- to provide land, facilities and technical support to researchers to conduct research into irrigation technology, cropping systems and soil and water conservation measures under irrigation and to provide information respecting that research to district consumers, irrigation districts and the public;
- to co-operate with SIPA, the minister and the corporation in promoting and developing sustainable irrigation in Saskatchewan.

Delivering "value for money" R&D to Saskatchewan irrigators



Irrigation Crop Diversification Corporation

Board of Directors

The following served as Directors of ICDC in 1999:

			Years left in term(#terms)
Carl Siemens	Chairman	Rush Lake ID	SWDA* 0(0)
John Konst	Vice Chair	SSRID	LDDA 0(0)
Gordon Kent	Alt Vice Chair/SIPA Rep.	Riverhurst ID	LDDA app.
Darryl McGregor	Director	Consul-Nashlyn ID	SWDA 2(0)
Dale Ewen	Director	Riverhurst ID	LDDA 2(0)
Don Fox	Director/SIPA Rep.	Baildon ID	SEDA 1(1)
Ken Plummer	Director	Moon Lake ID	NDA 1(1)
John Linsley	Provincial Rep.	Sask Water	app.
Vacant	Non District Irrigator Rep.		3(0)

*Four Development Areas were created by *The Irrigation Act, 1996*: Northern, South Western, South Eastern and Lake Diefenbaker.

ICDC Directors are elected by District Delegates to the Annual Meeting. Each Irrigation District is entitled to send one ICDC Delegate per 5,000 irrigated acres or part thereof. Two Directors are elected from LDDA, two from SWDA, and one each from NDA and SEDA. The Saskatchewan Irrigation Projects Association (SIPA) and Sask Water are allowed two directors each on the ICDC board. The ICDC board must, by law, have irrigators in the majority.

STAFF

By agreement agrologist and administrative services are provided to ICDC by Sask Water.

Les Bohrsen PAg	ICDC Senior Agrologist	Swift Current
Korvin Olfert PAg	ICDC Agrologist	Swift Current
Ian Bristow PAg	ICDC Agrologist	Outlook
Bloomfield Consulting		Central Butte

ICDC
Box 1000
Outlook Sask S0L 2N0
(306) 867-5527

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Irrigation Crop Diversification Corporation

LETTER OF TRANSMITTAL

Outlook, Saskatchewan
December 31st 1999
To His Honour
The Honourable John E.N. Wiebe
Lieutenant Governor of the Province of Saskatchewan

Sir:

I have the honour to submit herewith the Annual Report of ICDC (Irrigation Crop Diversification Corporation) for the year 1999, including the financial statement audited by Lois A. Johnson CMA, all in accordance with *The Irrigation Act, 1996*.

Respectfully submitted, sir, by

A handwritten signature in black ink, reading "Carl Siemens". The signature is written in a cursive style with a large, prominent "C" at the beginning.

Carl Siemens
Chairman
ICDC



Irrigation Crop Diversification Corporation

1999 ICDC Highlights

- District irrigators contribute \$0.35/acre to irrigation R&D through the ICDC Charge
- ICDC prepares an "Irrigation R&D Priorities" paper using input from all Irrigation Districts, confirming that ICDC does effectively represent irrigators
- ICDC delegates from all over the province attend the SIDC Strategic Planning session
- ICDC contracts the development of the SIDC Operational Plan
- ICDC Agrologists co-locate with PFRA staff at Swift Current and SIDC in Outlook for more convenient customer service
- ICDC demonstration at Maple Creek leads to significant improvement in water use efficiency in hay production through the transfer of irrigation to better soils and using sprinklers. A new site at Cypress Lake is continuing this significant demonstration
- ICDC runs the third year of "Crop Manager" and "Forage Manager" on-farm demonstrations to field test research
- ICDC funds Irrigated Crop Varieties, and Irrigated Durum Varieties research at SIDC
- ICDC initiated the "HAYWATCH" alfalfa quality program
- AC Navigator and AC Morse durum varieties are registered and show significant improvement for irrigators

Delivering "value for money" R&D to Saskatchewan irrigators

- District irrigators contribute \$0.35/acre to irrigation R&D through the ICDC Charge

ICDC has successfully collected \$0.35/acre from Irrigation Districts. The Board had set this rate and delegates had approved it at the 1997 annual meeting. 1998 was the first year that the charge was collected. Producer dollars have not been used in 1999 pending successful negotiations of irrigation R&D funding from governments to replace PAWBED funding.

- ICDC prepares an "Irrigation R&D Priorities" paper using input from all Irrigation Districts, confirming that ICDC does effectively represent irrigators

ICDC asked all Irrigation Districts to respond to a draft paper prepared by the ICDC Board. All Districts responded and ICDC published "ICDC Irrigation R&D Priorities" in the spring of 1999. This paper has been used in the development of the SIDC Business Plan. ICDC can effectively represent all irrigators through this kind of consultation process. ICDC is accountable to irrigators at its annual meeting and, therefore, effectively represents them.

- ICDC delegates from all over the province attend the SIDC Strategic Planning session

Irrigation R&D funding through PAWBED is ending and planning is required for future direction. SIDC initiated a two day strategic planning workshop for this purpose and stakeholders were included. ICDC called their District Delegates from around the province to represent irrigators. The ICDC Delegates responded: 75% of the District irrigated acres in Saskatchewan were represented. The SIDC Strategic Plan, therefore, is a powerful document truly representing the needs of the sector.

- ICDC contracts the development of the SIDC Operational Plan

One of the main recommendations of the strategic plan was to develop a "Business Plan" which would include more practical detail of the future irrigation R&D program. ICDC was requested to administer the contract for this exercise using CARDS money and a consultant. The ICDC Board has been working with the consultant to add the producer's perspective to the operation of SIDC. The Industry co-chair at SIDC, ICDC chairman Carl Siemens, has been able to effectively put this producer perspective to the management committee. Once again, ICDC is effectively representing producers.

- ICDC Agrologists co-locate with PFRA staff at Swift Current and SIDC in Outlook for more convenient customer service

ICDC Agrologists are now located at SIDC, Outlook and in the PFRA Building on the grounds of the Ag Canada Research Station in Swift Current. Co-locating offers more convenience for irrigators looking for service and information. Having an ICDC Agrologist at SIDC creates a more effective information flow from irrigators to station researchers and back to irrigators. Having the ICDC Agrologists on the Research Station grounds does the same for the irrigation agenda there.

- ICDC demonstration at Maple Creek leads to significant improvement in water use efficiency in hay production through the transfer of irrigation to better soils and using sprinklers. A new site at Cypress Lake is continuing this significant demonstration

Water use efficiency in water short South West Saskatchewan has been very poor. For example at Maple Creek 24" of water on the flood irrigated, poorly structured clay soils produced two to two and a half tons of medium to poor quality hay. 80% of the production came from the first cut. So ICDC and PFRA were involved in a project demonstrating that 12" of sprinkler irrigation on suitable soil could produce over 5 tons/acre of top quality hay. **A four-fold increase in water use efficiency.** Using PAWBED funding approximately 500 acres of flood irrigation have been abandoned and converted to sprinklers as a direct result of this demo. If rehabilitation funding became available more of this conversion could occur. The sprinkler system, used for the demo at Maple Creek, has now been moved to Cypress Lake where an ICDC demo site has been set up. Over 50 farmers turned out for the July field day to see the plots and the newly established hay. ICDC would like to thank producers Harold Gold, for the Maple Creek demo, and Blair Backman for the Cypress Lake demo.

- ICDC runs the third year of "Crop Manager" and "Forage Manager" on-farm demonstrations to field test research

These two ICDC demo programs have been among the most comprehensive and successful demo programs irrigation in Saskatchewan has ever seen. Approved by the Board, run by ICDC Agrologists with the cooperation of top producers "value for money" results have been achieved.

1999 ICDC FORAGE MANAGER DEMONSTRATIONS

Les Bohrsen PAg ICDC Senior Agrologist

Korvin Olfert PAg ICDC Agrologist

<i>Irrigator</i>	<i>Project Description</i>
TITTLE , Adam Ron Nashlyn	Alfalfa Variety Comparison, and soil inoculation.
MORVIK , Darrell Eastend	Alfalfa Variety Comparison, and establishment practices.
HALLADAY , Fred & Valerie Lodge Creek	Forage Harvest & Renovation Optimum Inputs
BASCOM , Ron Eastend	Alfalfa Variety Comparison and soil inoculation
ARENDT , Don Eastend	Alfalfa Establishment with high rate phosphate deep banding
LEGAULT , Orphil West Val Marie	Forage Harvest and Renovation with Optimum inputs
WIEBE , Jeff Waldeck North	Soil Inoculation for established and seedling Alfalfa
BLAKLEY , Ira & Laura Consul	Rapid forage Reestablishment Normal vs Aggressive Inputs
LEROY , James Eastend	Winter Cereal Selection for Forage Reestablishment.
BACKMAN , Blair Consul	ICDC Cypress Lake intensive sprinkler site: Alfalfa establishment, fertility & water use; SeCan cereal plot; Sask. Forage Council grass and legume variety test.
GREER , Hugh / STUART , Bob Miry Creek	HAYWATCH SASKATCHEWAN
HORVEY , Lyndon Miry Creek	Phosphate placement in established alfalfa
COLPITTS , John Miry Creek	HAYWATCH SASKATCHEWAN
WIEBE , Jeff Swift Current Creek	Alfalfa Variety Comparison, Seeding Rates & Soil Inoculation
GREEN , Mathew Swift Current Effluent	HAYWATCH SASKATCHEWAN
KRAHN , Kevin Highfield Reservoir	HAYWATCH SASKATCHEWAN
MATHIES , Ron Herbert IP	HAYWATCH SASKATCHEWAN
GREEN , David Swift Current Effluent	HAYWATCH SASKATCHEWAN
FACETTE , Arthur Val Marie	Alfalfa Variety Comparison and establishment practices.

1999 CROP MANAGER DEMONSTRATIONS - ON FARM

Ian Bristow PAg ICDC Agrologist
Bloomfield Consulting
(Deb Oram PAg, Lynn Schoenau).

FOLIAR FEED ON BEANS

Boyd Jones
Dennis O'Brien
Lorne Jackson
Duncan McKercher

EXTRA NITROGEN ON BEANS

Dola Newton
Gordon Kent
Garth Weierman

DEEP RIPPING ON BEANS

Gordon Kent
Kevin Langer
Kerry Oram
Garth Weierman
Raymond Dueck

CEREAL FUNGICIDE

Bob Sawatsky
Dale Ewen
Lorne Jackson
Roy King
Randy Bergstrom
Brent Whenham
Harold Langer

VARIETY TESTING

Harold Langer
Bob Sawatsky

CANOLA FUNGICIDE

Ken Plummer
Francis Kinzie
Michael Millar
Bob Tullis
Brent Whenham

ON STATION SIDC PROJECTS

Lawrence Townley-Smith PAg (PFRA)
Ian Bristow PAg ICDC Agrologist

- CANOLA COOP TESTS
- *CANOLA VARIETIES FOR IRRIGATION

- FLAX & SOLIN COOP TESTS
- *FLAX VARIETIES FOR IRRIGATION
- FIBRE FLAX RESEARCH

- *PEA VARIETIES FOR IRRIGATION

- *WHEAT VARIETIES FOR IRRIGATION
- SAC CEREAL REGIONAL
- HIGH YIELD COOP TEST
- SOFT WHEAT COOP TEST
- BARLEY REGIONAL
- *EVALUATION OF SEMI DWARF DURUM

- CROP TOLERANCE & WEED CONTROL IN SPECIAL CROPS
- IRRIGATED SUNFLOWER COOP
- INDUSTRIAL HEMP VARIETAL ANALYSIS FOR DELTA 9 THC TESTING

- BERTHA ARMYWORM SURVEILLANCE
- RAIN FAST STUDY (BAYER MKH6500)

* ICDC FUNDED

- **ICDC funds Irrigated Crop Varieties, and Irrigated Durum Varieties research at SIDC**

ICDC funded the Crop Varieties for Irrigation publication through PAWBED and contracted SIDC to do the work. This publication is widely used by irrigators as a source of independent variety test data. The same process was used by ICDC to fund the Durum variety testing work at SIDC. Both these projects have a significant impact on the irrigation profitability. PAWBED funding is now ended and ICDC's proposals for R&D funding have, so far, fallen on deaf ears.

- **ICDC initiated the "HAYWATCH" alfalfa quality program**

Parts of the USA have adopted "Relative Feed Value" as a means of measuring hay quality and, through hay auctions, hay prices. Irrigators in Saskatchewan strive to produce top quality hay for premium markets such as dairies, horses and processing. ICDC has responded by field testing the quality measurements under irrigation in Saskatchewan and are in the process of scientifically developing a simple field measure of hay quality under the HAYWATCH name.

- **AC Navigator and AC Morse durum varieties are registered and show significant improvement for irrigators**

After ten years of funding under the SIBED and PAWBED agreements, ICDC is pleased to have been part of the development of two newly registered Durum varieties responsive to irrigated conditions in Saskatchewan. Irrigated Durum is presently the cereal of choice for irrigated rotations. AC Navigator and AC Morse are shorter, have superior quality and yield significantly higher than their taller, lodging prone predecessors. Yields of these varieties in excess of 75 bu/acre were measured by ICDC Agrologists in 1999 Crop Manager Demos. Variety testing shows a 10% advantage over Sceptre, the previous variety of choice.

LOIS A. JOHNSON, C.M.A.

CERTIFIED MANAGEMENT ACCOUNTANT

P.O. Box 22, R.R. 1

Delisle, Sask. S0L 0P0

Phone: 493-2690

To the Members

Irrigation Crop Diversification Corporation

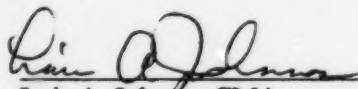
I have audited the statement of financial position of the Irrigation Crop Diversification Corporation as at March 31, 1999 and the statement of revenues for the year then ended. These financial statements are the responsibility of the Corporation's management. My responsibility is to express an opinion on these financial statements based on my audit.

I conducted my audit in accordance with generally accepted auditing standards. Those standards require that I plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit also includes examining on a test basis, evidence supporting the amount and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In my opinion, these financial statements present fairly, in all material respects, the financial position of the Corporation as at March 31, 1999 and the results of its operations for the year then ended in accordance with generally accepted accounting principles.

Delisle, Saskatchewan

May 14, 1999



Lois A. Johnson CMA

Irrigation Crop Diversification Corporation
Balance Sheet
As at March 31, 1999

ASSETS:	1999	1998
CU Membership	\$ 5.00	\$ 5.00
Cash and Bank	36,920.02	3,784.00
Short Term Investments	35,858.74	
Accounts Receivable	<u>1,054.90</u>	<u> </u>
	\$ 73,838.66	\$ 3,789.00
LIABILITIES AND MEMBERS' EQUITY:		
GST payable	\$ 4,465.19	\$ 247.74
Prepaid Member Levies	576.45	
Contracts Payable	1,108.76	
MEMBERS' EQUITY:		
Members' Equity	<u>67,688.26</u>	<u>3,541.26</u>
	\$ 73,838.66	\$ 3,789.00

Irrigation Crop Diversification Corporation
Statement of Surplus
As at March 31, 1999

Opening Balance	\$ 3,541.26
From operations	<u>64,147.00</u>
Ending Balance	\$ 67,688.26

Irrigation Crop Diversification Corporation
Statement of Revenue and Expenditure
For the year ended March 31, 1999

REVENUE:	1999	1998
Member Levies	\$ 28,625.69	\$ 3,541.26
Non District Levies	32,710.28	
Incoming Contracts	18,250.20	
Crop Management Project Fees	2,261.68	
Forage Management Project Fees	700.93	
Interest	<u>358.74</u>	<u> </u>
Total Revenue	\$ 82,907.52	\$ 3,541.26
EXPENDITURE:		
Outgoing Contracts	\$ 18,250.20	\$
Professional Fees	500.00	
Office Expense	<u>10.32</u>	<u> </u>
Total Expenditure	\$ 18,760.52	\$ <u> </u>
Net Surplus for the Period	\$ 64,147.00	\$ 3,541.26

Irrigation Crop Diversification Corporation
Changes in Financial Position
As at March 31, 1999

Opening Cash	\$ 3,789.00
From Operation	64,147.00
Increase in Accounts Receivable	1,054.90-
Increase in Accounts Payable	5,902.66+
Closing Cash	\$ 72,783.76

**Irrigation Crop Diversification Corporation
Notes to Financial Statements
At March 31, 1998**

The objects and purposes of ICDC are:

- a) to research and demonstrate to producers and irrigation districts profitable agronomic practices for irrigated crops;**
- b) to develop or assist in developing varieties of crops suitable for irrigated conditions;**
- c) to develop or assist in developing varieties of crops suitable for irrigated conditions; to provide means to researchers to conduct research into related technology, cropping systems and conservation measures under irrigation and to provide information respecting their research to members irrigation districts and the public;**
- d) to co-operate with SIPA, the minister and Sask Water Corporation in promoting and developing sustainable irrigation in Saskatchewan.**

2. The annual charges are to cover ICDC's operating and administrative costs for the fiscal year. As 1999 is the second fiscal year of operation, no funds have been disbursed for this purpose, and there are no restricted funds in the possession of the Corporation.